

CLAIMS

Claim 1. In a computer system including a processing unit and a display device having a plurality of pixels, wherein the perceived quality of an image displayed on the display device may be affected by a variety of factors including i) physical attributes of the display device, for example type of display device, white point, pixel pattern, and/or method of light modulation, and ii) a user's ability to perceive the displayed image, for example human color sensitivity and/or viewing angle, and wherein the physical attributes tend to vary from one display device to another and the user's ability to perceive tends to vary from one user to another, a method of increasing the perceived quality of a displayed image by compensating for at least one physical attribute of a display device and user profile information, the method comprising the steps for:

storing information about the at least one physical attribute of said display device, wherein the step for storing the at least one physical attribute of said display device includes the act of storing display type information, the display type information indicating whether the display is a liquid crystal display, a cathode ray tube display or another type of display;

storing user profile information about at least one user's ability to perceive a displayed image on said display device;

using the stored physical attribute and user profile information to define at least one display device parameter;

when processing a representation of an image to be displayed on said display device, using the display device parameter to alter the output of one or more pixels of said display device in order to increase the perceived quality of the resulting image when displayed on the display device; and

displaying the processed image on said display device.

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